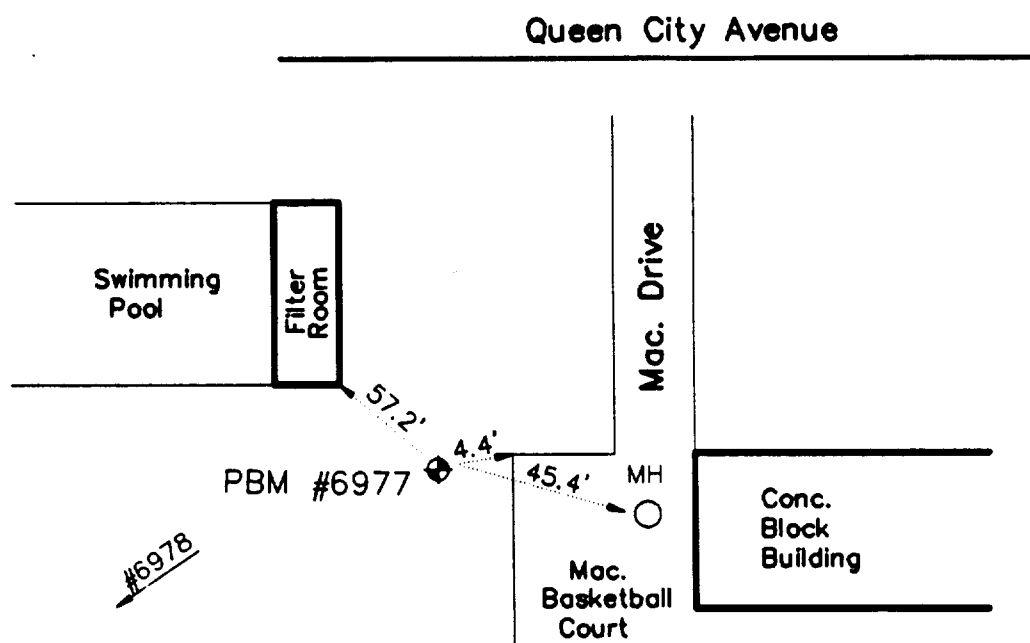


City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: SOUTH FAIRMOUNT BALLFIELDS



STATION IS LOCATED AT SOUTH FAIRMOUNT BALLFIELDS ON QUEEN CITY AVENUE AT GRAND AVENUE, IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, GO NORTH ON MAIN STREET 0.10 MI (0.16 KM) TO SIXTH STREET, TURN LEFT ON SIXTH TO I-75 NORTH TO WESTERN HILLS VIADUCT, TURN RIGHT ON WESTERN HILLS VIADUCT FOR 0.60 MI (0.97 KM) TO HARRISON AVENUE, TURN RIGHT ON HARRISON FOR 0.20 MI (0.32 KM) TO QUEEN CITY AVENUE, TURN LEFT ON QUEEN CITY FOR 0.20 MI, PARK IS LOCATED ON THE LEFT SIDE OF QUEEN CITY AVENUE AT GRAND AVENUE. STATION IS SET FLUSH WITH THE TOP OF THE GROUND, 4.40 FT (1.34 M) WEST OF THE NORTHWEST CORNER OF A BLACKTOP BASKETBALL COURT, 45.40 FT (13.84 M) NORTHWEST OF AN INLET MANHOLE, 57.20 FT (17.43 M) SOUTHEAST OF THE SOUTHEAST CORNER OF THE FILTER ROOM FOR THE SWIMMING POOL.

Horizontal

Latitude (dms) N 39 07 32.45797
 Longitude (dms) W 84 33 05.32774
 State Plane Zone (3402) Ohio South
 Scale 0.99994604
 Convergence (dms) -1 18 06.13
 Accuracy 1st Order
 Datum NAD 83
 Easting (X) in meters 422,627.326
 Northing (Y) in meters 126,980.516
 Easting (X) in US Survey ft. 1,386,569.819
 Northing (Y) in US Survey ft. 416,601.908

Final Adjusted Coordinate from NGS	March 1992
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Vertical

Accuracy 2nd Order Class II
 Datum NAVD 29 NAVD 88
 Elevation in meters 149.618
 Elevation in US Survey ft. 490.87

Final Adjusted Elevation from NGS	August 1992
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No. 6977

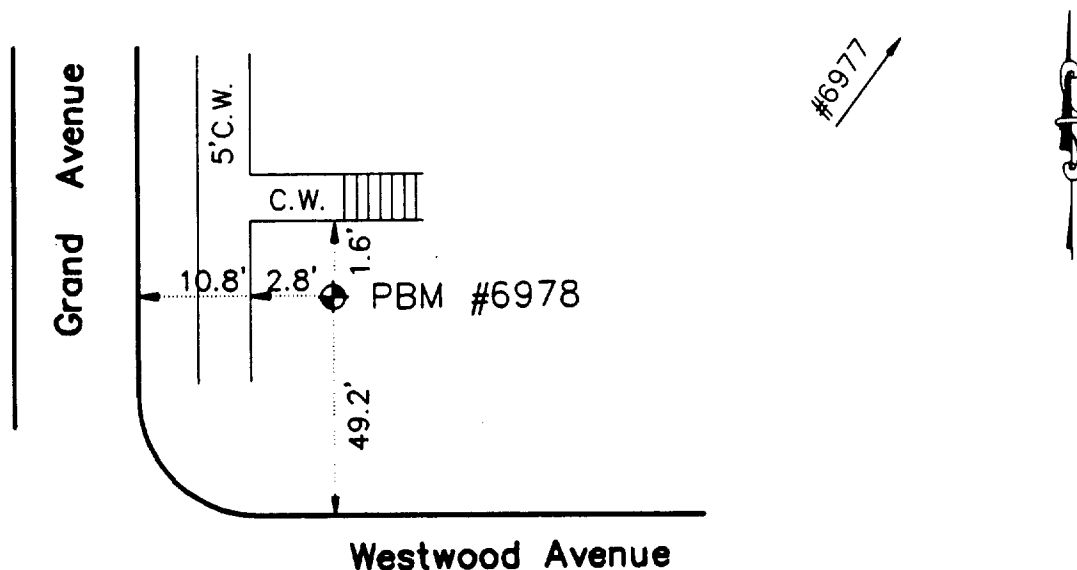
Neighborhood: South Fairmount

Grid Bearing
 to B.M. 6978

S 72 01 14 W

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: SOUTH FAIRMOUNT BALLFIELDS



STATION IS LOCATED AT SOUTH FAIRMOUNT BALLFIELDS ON QUEEN CITY AVENUE AT GRAND AVENUE, IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, GO NORTH ON MAIN STREET 0.10 MI (0.16 KM) TO SIXTH STREET, TURN LEFT ON SIXTH TO I-75 NORTH TO WESTERN HILLS VIADUCT, TURN RIGHT ON WESTERN HILLS VIADUCT FOR 0.60 MI (0.97 KM) TO HARRISON AVENUE, TURN RIGHT ON HARRISON FOR 0.20 MI (0.32 KM) TO QUEEN CITY AVENUE, TURN LEFT ON QUEEN CITY FOR 0.20 MI, PARK IS LOCATED ON THE LEFT SIDE OF QUEEN CITY AVENUE AT GRAND AVENUE. THE STATION IS SET FLUSH WITH THE GROUND AND IS LOCATED 49.2 FT NORTH OF THE NORTH EDGE OF WESTWOOD AVENUE, 10.8 FT EAST OF THE EAST EDGE OF GRAND AVENUE, 2.8 FT EAST OF THE EAST EDGE OF A PUBLIC 5' CONCRETE WALK AND 1.6 FT SOUTH OF THE SOUTH EDGE OF A PRIVATE CONCRETE WALK.

Azimuth Mark

Vertical

Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	150.662
Elevation in US Survey feet	494.30
Final Adjusted Elevation from NGS	August 1992

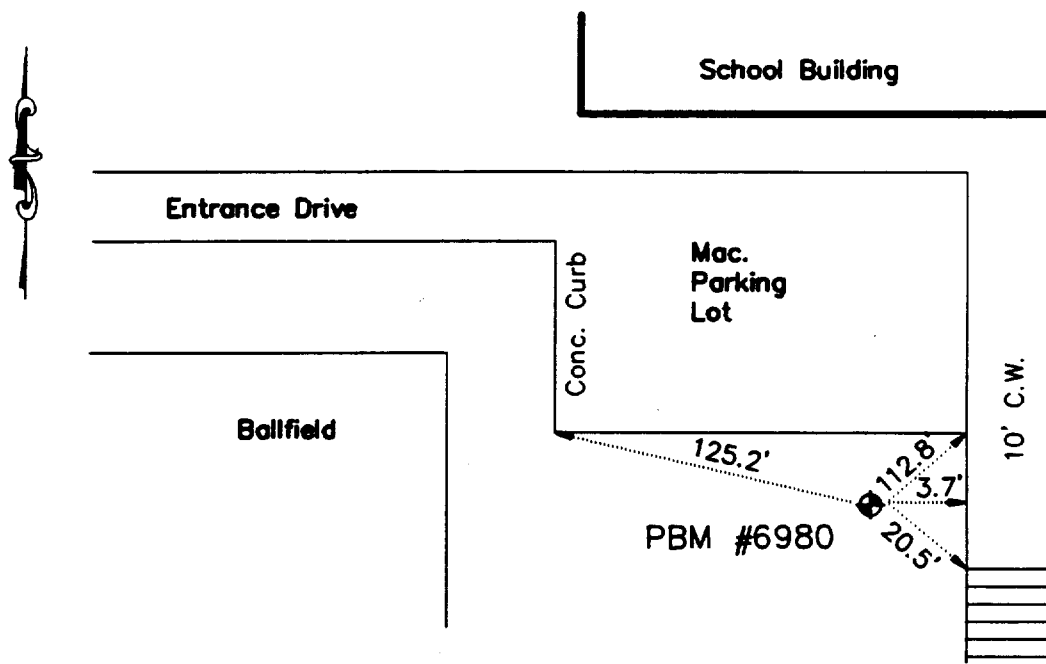
No. 6978

Neighborhood: South Fairmount

Pairs with B.M. 6977

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: ROBERTS JR. HIGH SCHOOL



STATION IS LOCATED AT ROBERTS JUNIOR HIGH SCHOOL ON GRAND AVENUE, TWO BLOCKS NORTH OF GLENWAY AVENUE, IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT THE CORNER OF FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI. GO NORTH ON MAIN STREET 0.10 MI (0.16 KM) TO SIXTH STREET, TURN LEFT ON SIXTH TO THE SIXTH STREET EXPRESSWAY FOR 2.10 MI (3.38 KM) TO EVANS AVENUE. TURN RIGHT ON EVANS FOR 0.20 MI (0.32 KM) TO THE EIGHTH STREET VIADUCT. TURN LEFT ON EIGHTH STREET VIADUCT WHICH TURNS INTO GLENWAY AVENUE FOR 1.00 MI (1.61 KM) TO GRAND AVENUE, TURN RIGHT ON GRAND FOR 0.30 MI (0.48 KM) ROBERTS J.H WILL BE ON THE RIGHT SIDE OF GRAND. STATION IS SET FLUSH WITH THE TOP OF THE GROUND, 20.5 FT (6.2 M) NORTHWEST OF THE NORTHWEST CORNER OF THE BOTTOM STEP OF A 10 FT (3.0 M) CONCRETE SIDEWALK, 3.7 FT (1.1 M) WEST OF THE WEST EDGE OF PAVEMENT OF THE CONCRETE SIDEWALK, 112.8 FT (34.4 M) SOUTHWEST OF THE SOUTHEAST CORNER OF THE PAVED PARKING LOT AND 125.2 FT (38.2 M) SOUTHEAST OF THE SOUTHWEST CORNER OF THE PAVED PARKING LOT IN FRONT OF THE SCHOOL BUILDING.

Horizontal

Latitude (dms) N 39 06 57.51036
 Longitude (dms) W 84 33 29.21534
 State Plane Zone (3402) Ohio South
 Scale 0.99994682
 Convergence (dms) -1 18 21.29
 Accuracy 1st Order
 Datum NAD 83
 Easting (X) in meters 422,029.159
 Northing (Y) in meters 125,916.184
 Easting (X) in US Survey ft. 1,384,607.331
 Northing (Y) in US Survey ft. 413,110.015

Final Adjusted Coordinate from NGS	March 1992
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Vertical

Accuracy 2nd Order Class II
 Datum NAVD 29 NAVD 88
 Elevation in meters 248.881
 Elevation is US Survey ft. 816.54

Final Adjusted Elevation from NGS	August 1992
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No. 6980

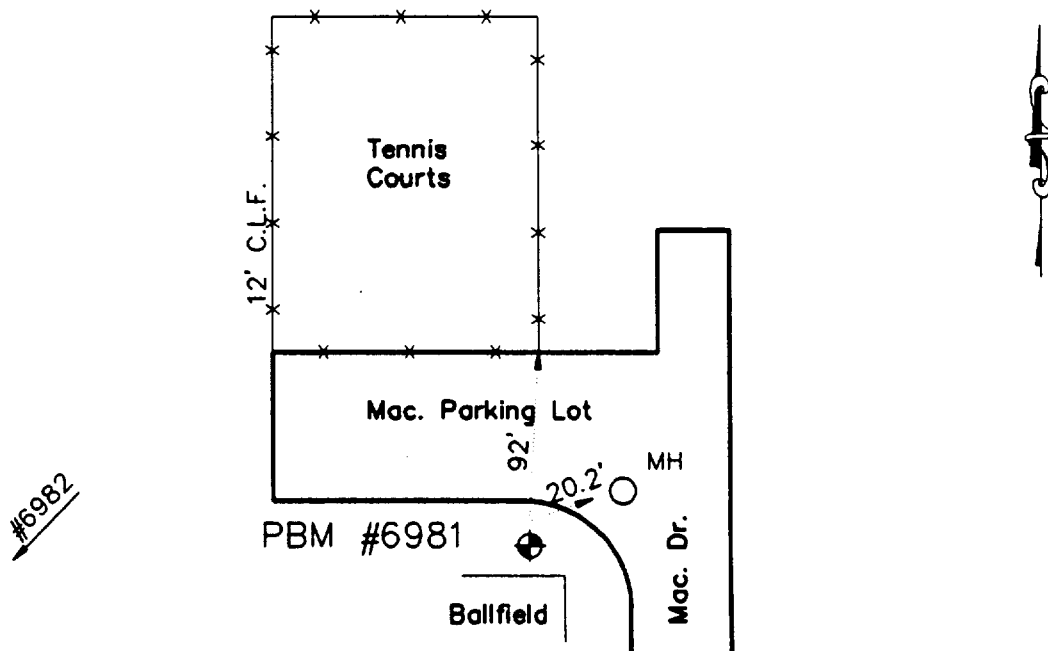
Neighborhood: Price Hill

Grid Bearing
 to B.M. 9004

N 54 29 23 E

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: MT. ECHO PARK



STATION IS LOCATED AT MT. ECHO PARK ON ELBERON AVENUE, ONE BLOCK NORTH OF PURCELL AVENUE, IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT THE CORNER OF FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, GO NORTH ON MAIN STREET FOR 0.10 MI (0.16 KM) TO SIXTH STREET, TURN LEFT ON SIXTH TO THE SIXTH STREET EXPRESSWAY FOR 2.50 MI (4.02 KM) TO THE ELBERON AVENUE EXIT, TURN LEFT ON ELBERON TO MT. ECHO PARK. MT. ECHO PARK IS LOCATED ON THE RIGHT SIDE OF ELBERON. THE STATION IS SET FLUSH WITH THE TOP OF THE GROUND 20.2 FT SOUTHWEST OF A TELEPHONE MANHOLE, 92.00 FT (28.04 M) SOUTH OF THE SOUTHEAST CORNER OF A 12.0 FT (3.7 M) CHAIN LINK FENCE AROUND THE TENNIS COURTS, 29.50 FT (8.99 M) NORTHEAST OF THE WEST END OF A CHAIN LINK BALLFIELD BACKSTOP FENCE.

Horizontal

Latitude (dms) N 39 05 40.97220
 Longitude (dms) W 84 34 04.79813
 State Plane Zone (3402) Ohio South
 Scale 0.99994862
 Convergence (dms) -1 18 43.87
 Accuracy 1st Order
 Datum NAD 83
 Easting (X) in meters 421,120.554
 Northing (Y) in meters 123,576.156
 Easting (X) in US Survey ft. 1,381,626.351
 Northing (Y) in US Survey ft. 405,432.771

Final Adjusted Coordinate from NGS	March 1992
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Vertical

Accuracy 2nd Order Class II
 Datum NAVD 29 NAVD 88
 Elevation in meters 250.743
 Elevation in US Survey ft. 822.65

Final Adjusted Elevation from NGS	August 1992
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No. 6981

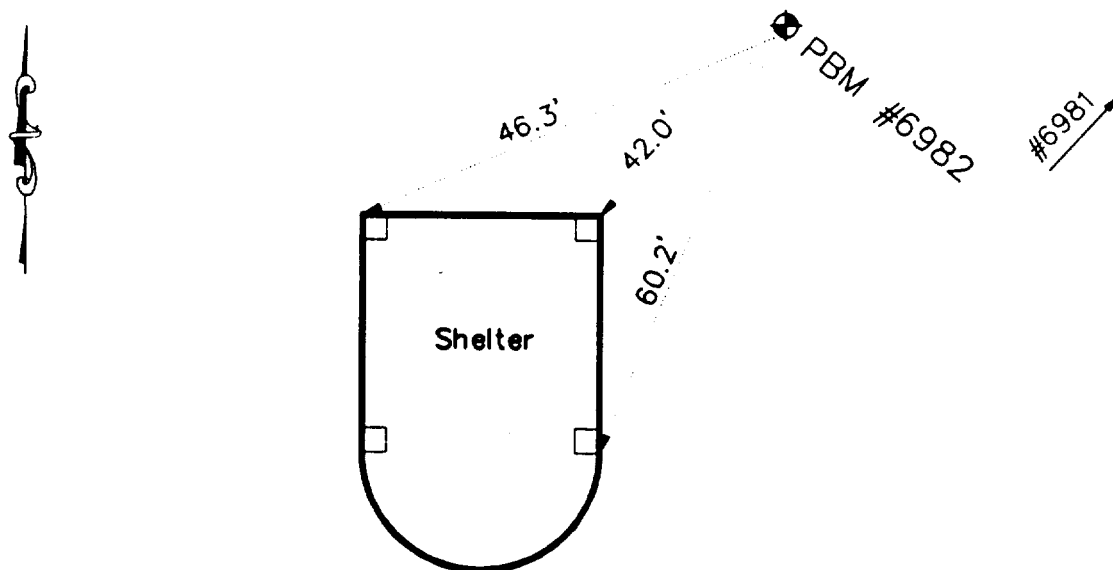
Neighborhood: Price Hill

Grid Bearing to B.M. 6982

S 50 47 05 W

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: MT. ECHO PARK



STATION IS LOCATED AT MT. ECHO PARK ON ELBERON AVENUE, ONE BLOCK NORTH OF PURCELL AVENUE, IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT THE CORNER OF FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, GO NORTH ON MAIN STREET FOR 0.10 MI (0.16 KM) TO SIXTH STREET, TURN LEFT ON SIXTH TO THE SIXTH STREET EXPRESSWAY FOR 2.50 MI (4.02 KM) TO THE ELBERON AVENUE EXIT, TURN LEFT ON ELBERON TO MT. ECHO PARK. MT. ECHO PARK IS LOCATED ON THE RIGHT SIDE OF ELBERON. THE STATION IS SET FLUSH WITH THE GROUND AND IS LOCATED 60.2 FT NORTHEAST OF THE SOUTHEAST CORNER OF A PARK SHELTER, 46.3 FT NORTHEAST OF THE NORTHWEST CORNER OF SAID SHELTER, 42.0 FT NORTHEAST OF THE NORTHEAST CORNER OF SAID SHELTER AND 2.0 FT EAST OF THE EAST EDGE PRODUCED NORTH OF SAID SHELTER.

Azimuth Mark

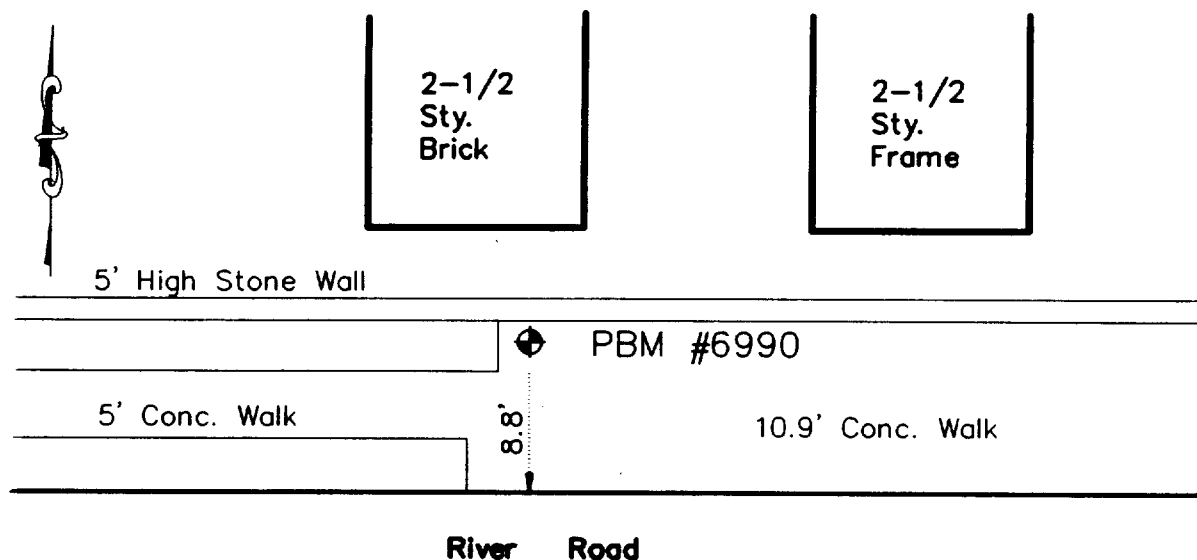
No. 6982

Neighborhood: Price Hill

Pairs with B.M. 6981

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: SEDAMSVILLE



THE STATION IS LOCATED ± 0.5 MILE WEST OF EVANS STREET ON THE NORTH SIDE OF RIVER ROAD IN CINCINNATI, OHIO. THE STATION IS SET FLUSH WITH THE EXISTING SURFACE OF A 10.9 FT WIDE CONCRETE WALK AND IS LOCATED 8.8 FT NORTH OF THE NORTH CURB EDGE OF SAID RIVER ROAD.

Intermediate Mark

Vertical

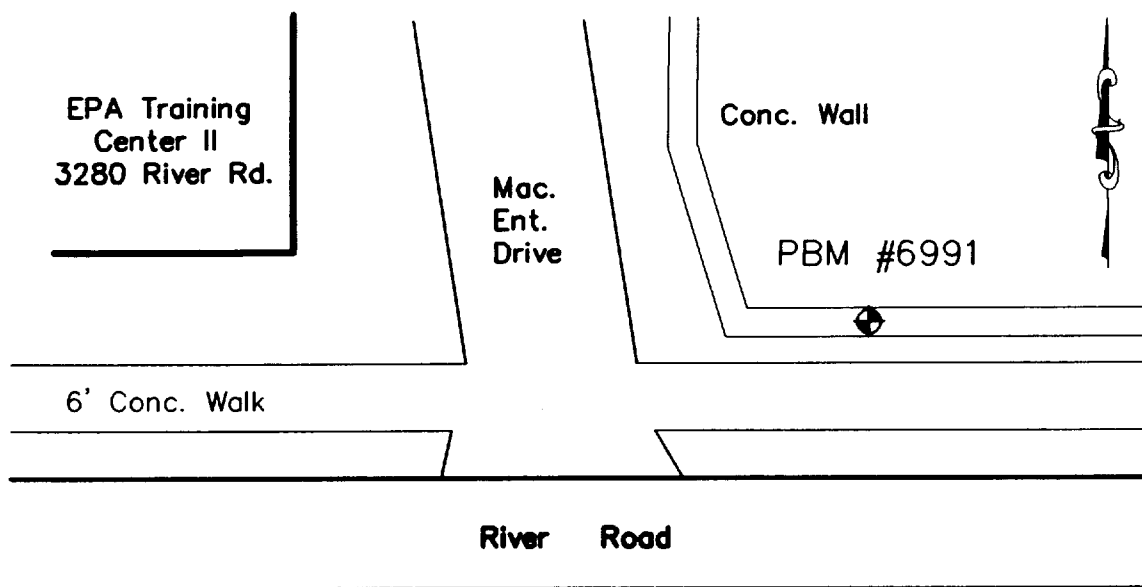
Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	151.2329
Elevation in US Survey feet	496.170
Final Adjusted Elevation from NGS	June 1991

No. 6990

Neighborhood: Sedamsville

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: RIVERSIDE



THE STATION IS LOCATED AT THE E.P.A. TRAINING CENTER II ON RIVER ROAD, ± 0.3 MILE WEST OF FAIRBANKS AVENUE IN CINCINNATI, OHIO. THE STATION IS SET FLUSH WITH THE EXISTING CONCRETE SURFACE OF A 12 INCH CONCRETE RETAINING WALL ON THE NORTH SIDE OF SAID RIVER ROAD WHICH IS LOCATED 10.3 FT NORTH OF THE NORTH CURB EDGE OF SAID RIVER ROAD AND ± 9.3 FT EAST OF THE WEST EDGE OF SAID RETAINING WALL.

Intermediate Mark

Vertical

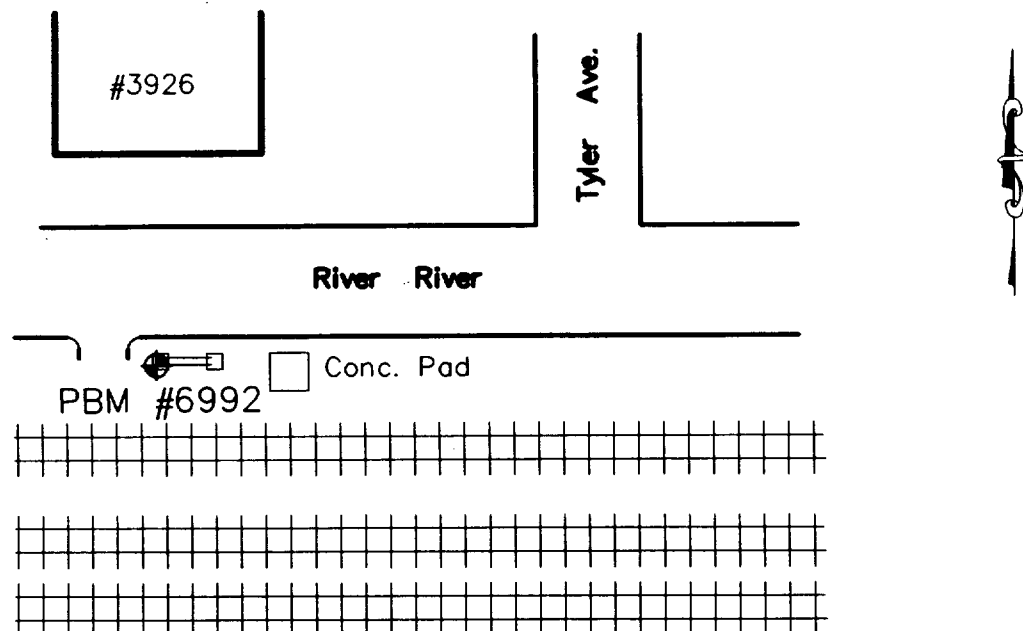
Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	164.7033
Elevation in US Survey feet	540.364
Final Adjusted Elevation from NGS	June 1991

No. 6991

Neighborhood: Riverside

**City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET**

Approximate Location: RIVERSIDE



THE STATION IS LOCATED IN THE SOUTH SIDE OF THE "T" INTERSECTION OF RIVER ROAD AND TYLER ROAD IN CINCINNATI, OHIO. THE STATION IS SET FLUSH WITH THE EXISTING SURFACE OF A CONCRETE BASE FOR A RAILROAD SIGNAL POLE AND IS LOCATED 48.6 FT EAST OF THE EAST CURB EDGE OF A DRIVE TO THE SOUTH, 20.0 FT SOUTH OF THE SOUTH CURB EDGE OF SAID RIVER ROAD AND 14.3 FT NORTH OF THE NORTHERNMOST RAIL OF A RAILROAD NETWORK.

Intermediate Mark

Vertical

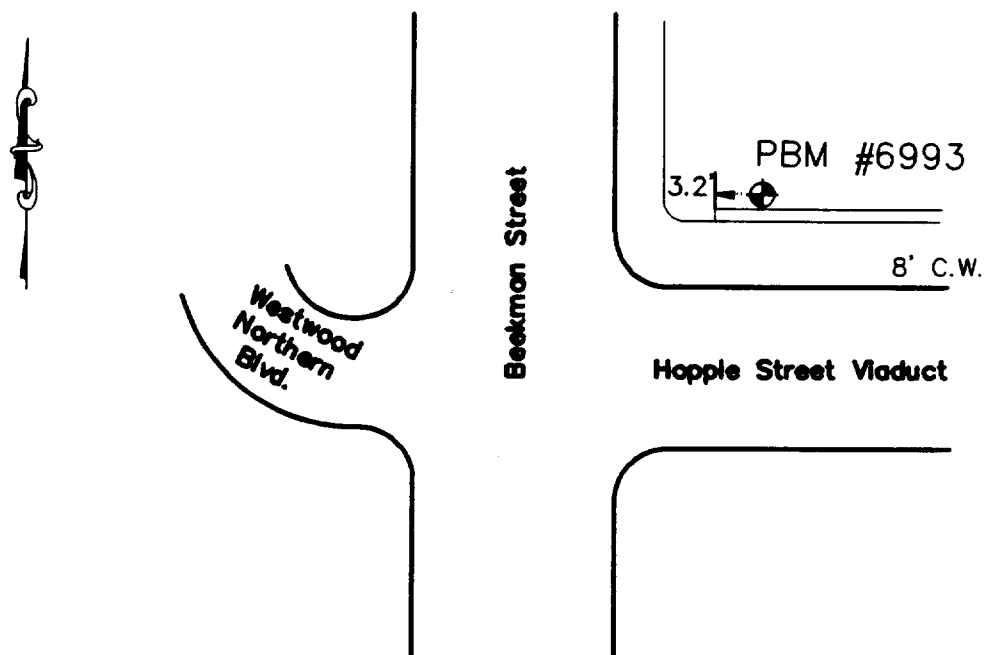
Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	150.0575
Elevation in US Survey feet	492.314
Final Adjusted Elevation from NGS	June 1991

No. 6992

Neighborhood: Riverside

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: NORTH FAIRMOUNT



THE STATION IS LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION OF BEEKMAN STREET, WESTWOOD NORTHERN BOULEVARD AND THE HOPPLE STREET VIADUCT IN CINCINNATI, OHIO. THE STATION IS SET FLUSH WITH THE EXISTING SURFACE OF A 3.5 FT HIGH CONCRETE RETAINING WALL WITH RAILING WHICH IS LOCATED 3.2 FT EAST OF THE WEST EDGE OF SAID RETAINING WALL.

Intermediate Mark

Vertical

Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	161.8455
Elevation in US Survey feet	530.988

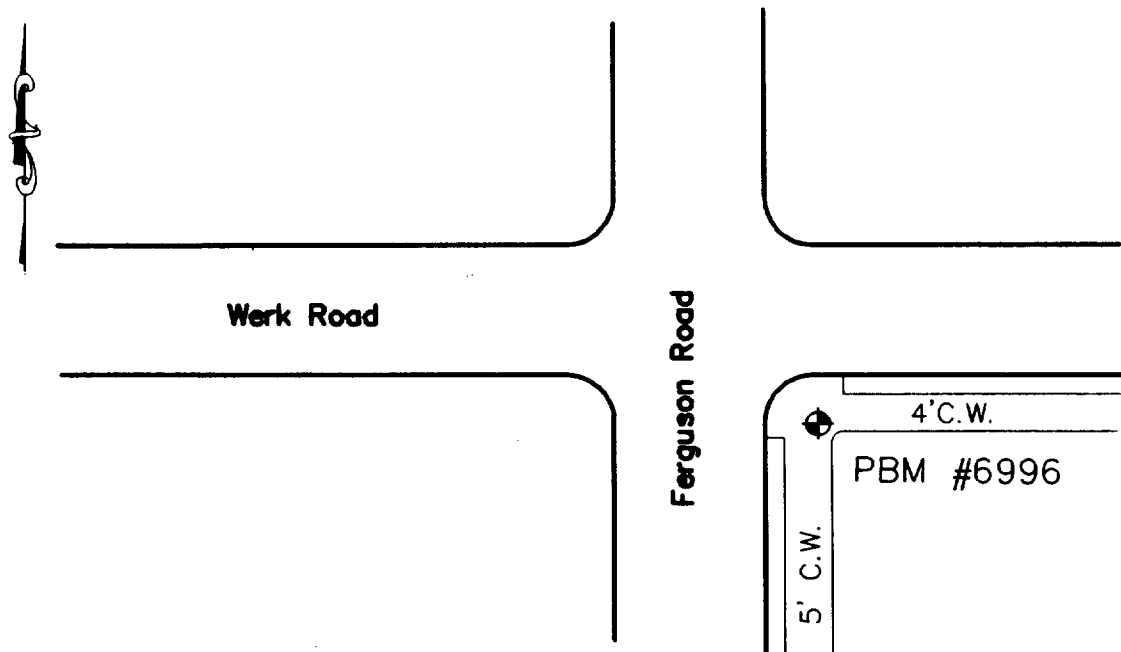
Final Adjusted Elevation from NGS	June 1991
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No. 6993

Neighborhood: North Fairmount

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: WESTWOOD



THE STATION IS LOCATED IN THE SOUTHEAST CORNER OF THE INTERSECTION OF WERK AND FERGUSON ROADS IN CINCINNATI, OHIO. THE STATION IS SET FLUSH WITH THE EXISTING SURFACE OF A 4 FT AND 5 FT WIDE CONCRETE WALK INTERSECTION AND IS LOCATED 12.0 FT SOUTH OF THE SOUTH CURB EDGE OF SAID WERK ROAD AND 12.0 FT EAST OF THE EAST CURB EDGE OF SAID FERGUSON ROAD.

Intermediate Mark

Vertical

Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	275.2434
Elevation in US Survey feet	903.028

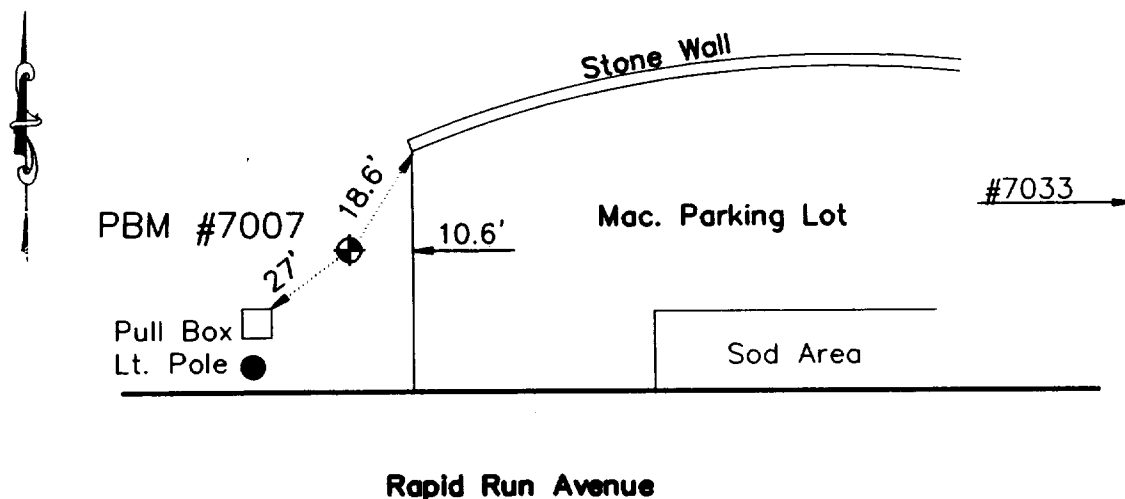
Final Adjusted Elevation from NGS	June 1991
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No. 6996

Neighborhood: Westwood

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: RAPID RUN PARK



STATION IS LOCATED AT THE NORTHWEST ENTRANCE TO MACADAM PARKING LOT AT THE RAPID RUN PARK IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, PROCEED NORTH ALONG MAIN ST. FOR 4 BLOCKS TO 9TH ST. TURN WEST ON 9TH ST. THAT MERGES WITH 8TH ST. FOR 2.26 MI (3.64 KM) TO GLENWAY AVE. TURN NORTHWEST ON GLENWAY AVE. FOR 2.41 MI (3.88 KM) TO RAPID RUN. TURN NORTH ON RAPID RUN FOR 0.18 MI (0.29 KM) TO THE STATION. STATION IS SET FLUSH WITH THE GROUND AND IS 10.6 FT (3.2 M) WEST OF THE WEST EDGE OF MACADAM PARKING LOT NORTH OF RAPID RUN PIKE, 18.6 FT (5.7 M) SOUTHWEST OF WEST EDGE OF AN 18 INCH STONE WALL NORTH OF THE MACADAM PARKING LOT AND 27.0 FT (8.2 M) NORTH OF THE CONCRETE PULL BOX PATH NORTH OF THE RAPID RUN PIKE.

Horizontal		Vertical	
Latitude (dms)	N 39 06 59.11626	Accuracy	2nd Order Class II
Longitude (dms)	W 84 35 18.38188	Datum	NAVD 29 NAVD 88
State Plane Zone	(3402) Ohio South	Elevation in meters	249.078
Scale	0.99994678	Elevation is US Survey ft.	817.18
Convergence (dms)	-1 19 30.56	Final Adjusted Elevation from NGS	August 1992
Accuracy	1st Order		
Datum	NAD 83		
Easting (X) in meters	419,408.566		
Northing (Y) in meters	126,025.898		
Easting (X) in US Survey ft.	1,376,009.603		
Northing (Y) in US Survey ft.	413,469.968		
Final Adjusted Coordinate from NGS	March 1992		

No. 7007

Neighborhood: Covedale

Grid Bearing
to B.M. 7033

N 49 46 23 E

**Grid Bearing
to B.M. 7033**

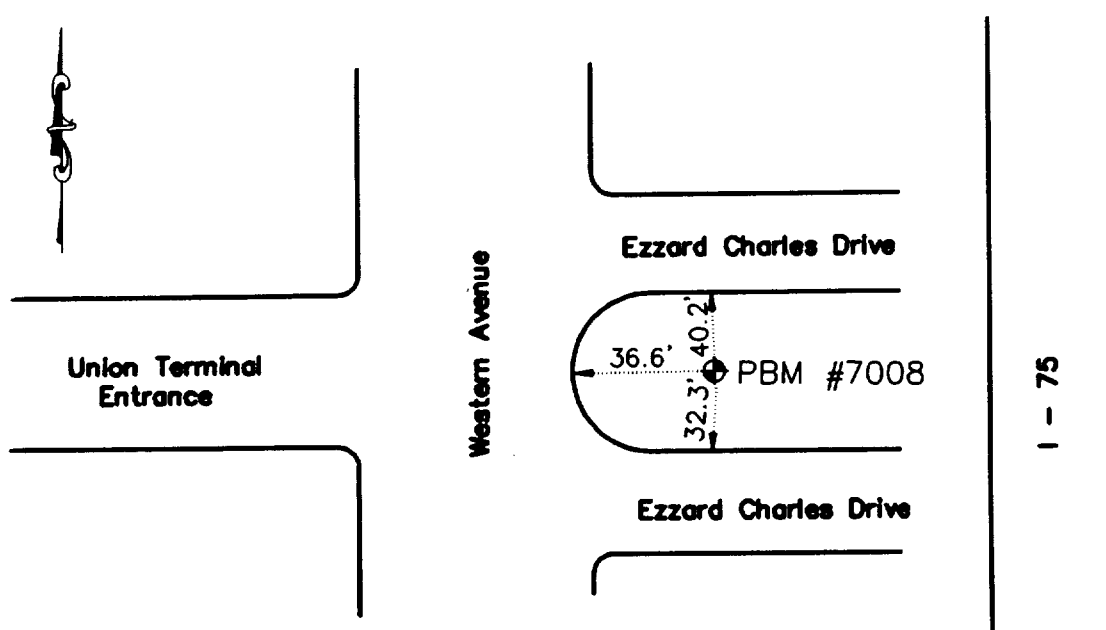
No. 7007

Neighborhood: Covedale

N 49 46 23 E

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: UNION TERMINAL



STATION IS LOCATED AT THE MEDIAN OF EZZARD CHARLES DRIVE OPPOSITE THE UNION TERMINAL ENTRANCE IN WESTERN AVENUE IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, PROCEED NORTH ALONG MAIN ST. FOR 4 BLOCKS TO 9TH ST. TURN WEST ON 9TH ST. FOR 1.00 MI (1.61 KM) TO LINN ST. TURN NORTH ON LINN ST. FOR 0.42 MI (0.68 KM) TO EZZARD CHARLES DR. TURN WEST ON EZZARD CHARLES DR. FOR 0.23 MI (0.37 KM) TO WESTERN AVE. TO THE STATION. STATION IS SET FLUSH WITH THE GROUND AND IS 36.6 FT (11.2 M) EAST OF THE WEST EDGE OF MEDIAN OF EZZARD CHARLES DRIVE, 40.2 FT (12.3 M) SOUTH OF THE NORTH EDGE OF MEDIAN OF THE SAID EZZARD CHARLES DRIVE AND 32.3 FT (9.8 M) NORTH OF THE SOUTH EDGE OF MEDIAN OF THE SAID EZZARD CHARLES DRIVE.

Horizontal		Vertical	
Latitude (dms)	N 39 06 34.46749	Accuracy	2nd Order Class II
Longitude (dms)	W 84 31 55.16433	Datum	NAVD 29 NAVD 88
State Plane Zone	(3402) Ohio South	Elevation in meters	153.942
Scale	0.99994735	Elevation is US Survey ft.	505.06
Convergence (dms)	-1 17 21.61	Final Adjusted Elevation from NGS	August 1992
Accuracy	1st Order		
Datum	NAD 83		
Easting (X) in meters	424,271.910		
Northing (Y) in meters	125,154.636		
Easting (X) in US Survey ft.	1,391,965.426		
Northing (Y) in US Survey ft.	410,611.502		
Final Adjusted Coordinate from NGS	March 1992		

No. 7008

Neighborhood: West End

Grid Bearing
to B.M. 9001

N 56 14 00 E

No. 7008

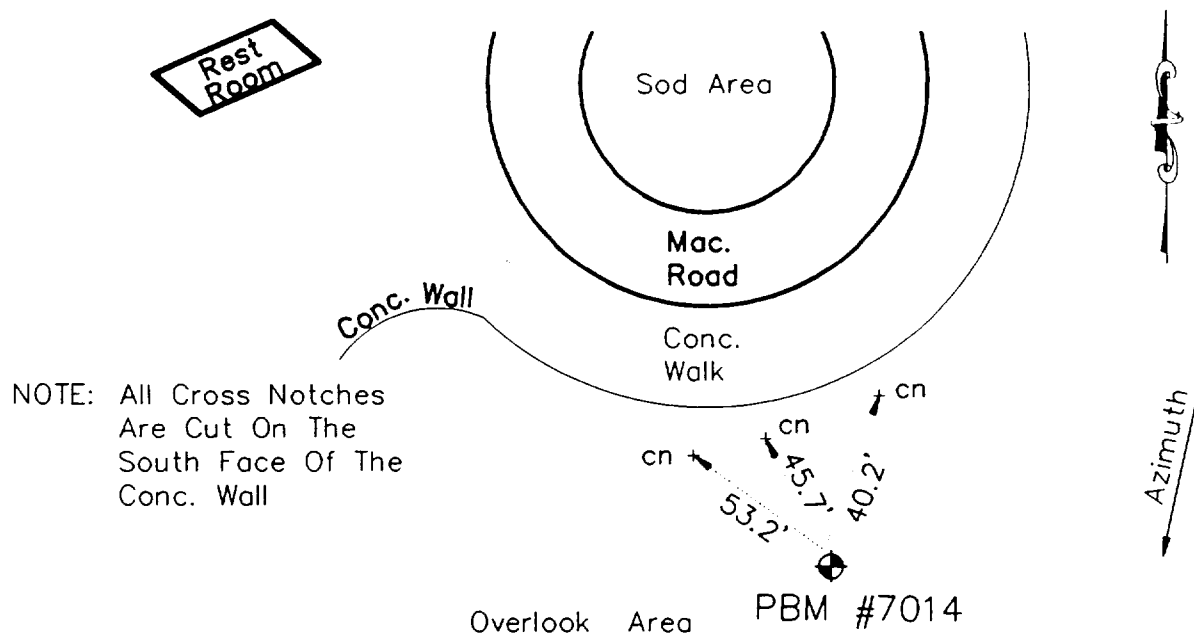
Neighborhood: West End

**Grid Bearing
to B.M. 9001**

N 56 14 00 E

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: BELLEVUE PARK



STATION IS LOCATED AT THE OVERLOOK AREA IN BELLEVUE PARK IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, PROCEED NORTH ALONG MAIN ST. TO SIXTH STREET, TURN LEFT ON SIXTH TO VINE STREET, TURN RIGHT ON VINE TO MCMILLAN STREET. TURN RIGHT ON MCMILLAN STREET TO OHIO AVENUE, TURN RIGHT ON OHIO AVENUE TO BELLEVUE HILLS PARK TO THE STATION. THE STATION IS SET FLUSH WITH THE GROUND AND IS LOCATED 53.2 FT (16.2 M) SOUTHEAST OF THE WESTERNMOST CROSS NOTCH CUT ON SOUTH FACE OF 12 INCH CONCRETE WALL, 45.7 FT (13.9 M) SOUTHEAST OF MIDDLE CROSS NOTCH WHICH IS 13.5 FT (4.1 M) AWAY FROM THE WESTERNMOST CROSS NOTCH AND 40.2 FT (12.3 M) SOUTHWEST OF THE EASTERNMOST CROSS NOTCH WHICH IS 12.9 FT (3.9 M) AWAY FROM THE MIDDLE CROSS NOTCH CUT ON SOUTH FACE OF 12 INCH CONCRETE WALL.

Horizontal

Latitude (dms) N 39 07 17.20950
 Longitude (dms) W 84 31 09.18304
 State Plane Zone (3402) Ohio South
 Scale 0.99994638
 Convergence (dms) -1 16 52.44
 Accuracy 1st Order
 Datum NAD 83
 Easting (X) in meters 425,405.779
 Northing (Y) in meters 126,447.547
 Easting (X) in US Survey ft. 1,395,685.460
 Northing (Y) in US Survey ft. 414,853.326

Vertical

Accuracy 2nd Order Class II
 Datum NAVD 29 NAVD 88
 Elevation in meters 254.369
 Elevation in US Survey ft. 834.54

Final Adjusted Elevation from NGS	August 1992
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Final Adjusted Coordinate from NGS	March 1992
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Grid Bearing
 to B.M. 9003

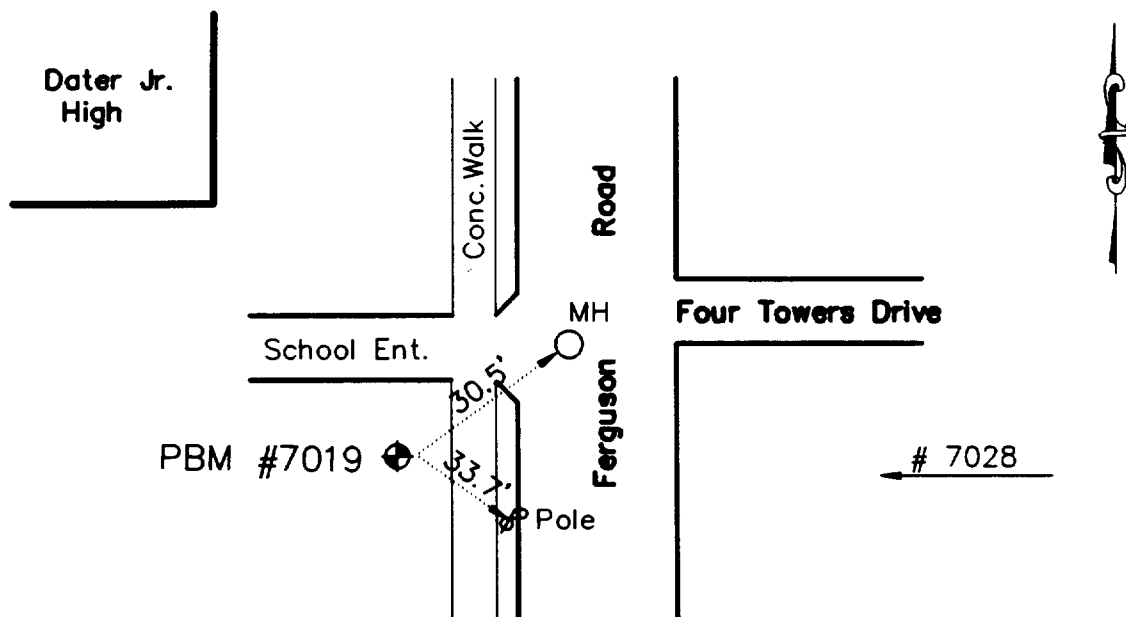
No. 7014

Neighborhood: Clifton

S 67 53 38 E

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: DATER JUNIOR HIGH SCHOOL



STATION IS LOCATED IN THE SOUTHWEST CORNER OF THE INTERSECTION OF FERGUSON ROAD, FOUR TOWERS DRIVE TO THE EAST AND THE REAR ENTRANCE TO THE GILBERT DATER JUNIOR HIGH SCHOOL IN CINCINNATI, OHIO TO THE WEST. TO REACH FROM THE FEDERAL BUILDING AT FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, PROCEED NORTH ALONG MAIN ST. FOR 4 BLOCKS TO 9TH ST. TURN WEST ON 9TH ST. THAT MERGES WITH 8TH ST. FOR 2.26 MI (3.64 KM) TO GLENWAY AVE. TURN NORTHWEST ON GLENWAY AVE. FOR 3.75 MI (6.03 KM) TO FERGUSON AVE. TURN NORTH ON FERGUSON AVE. FOR 0.33 MI (0.53 KM) TO THE ENTRANCE DRIVE OF DATER JUNIOR HIGH SCHOOL TO THE STATION. THE STATION IS SET FLUSH WITH THE GROUND AND IS LOCATED 33.7 FT NORTHWEST OF A TELEPHONE POLE, 30.5 FT SOUTHWEST OF A MANHOLE THAT IS LOCATED IN THE MIDDLE OF FERGUSON ROAD AND 3.4 FT WEST OF THE WEST EDGE OF A CONCRETE WALK THAT RUNS ALONG FERGUSON ROAD.

Azimuth Mark

Vertical

Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	280.679
Elevation in US Survey feet	920.86
Final Adjusted Elevation from NGS	AUGUST 1992

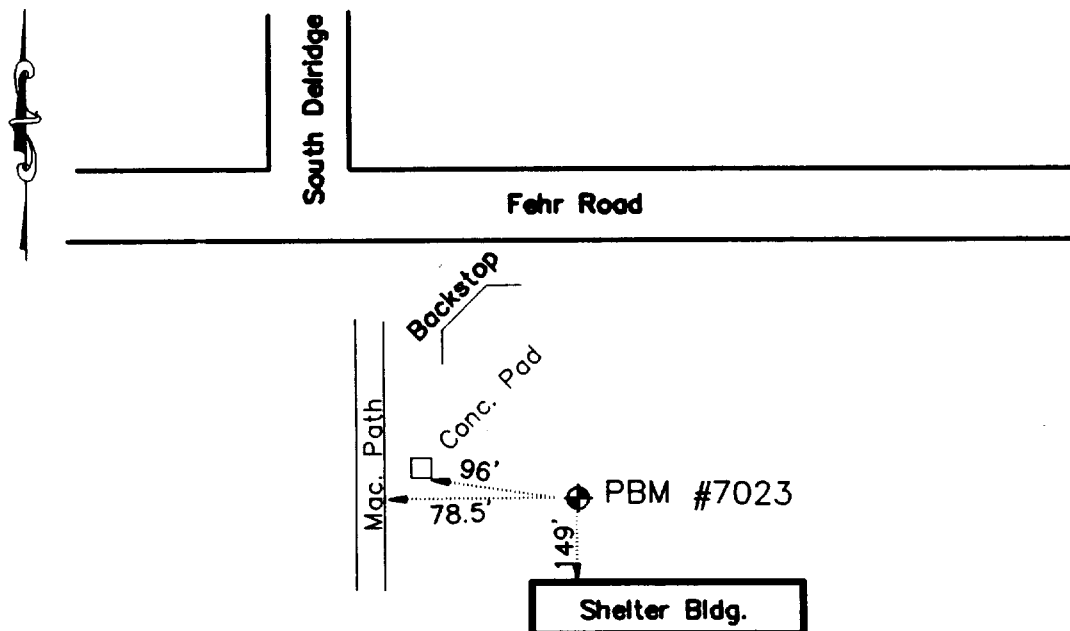
No. 7019

Neighborhood: WESTWOOD

Pairs with B.M. 7028

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: EDWARDS PARK



STATION IS LOCATED ON THE SOUTH SIDE OF FEHR ROAD AT EDWARDS PARK IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, PROCEED NORTH ALONG MAIN ST. FOR 1 BLOCK TO 6TH STREET TURN WEST ON 6TH STREET THAT CHANGES TO U. S. 50 FOR 3.45 MI (5.55 KM) TO DELHI AVE. TURN NORTHWEST ON DELHI AVE. FOR 1.51 MI (2.43 KM) TO MAYHEW AVE. TURN WEST ON MAYHEW FOR 1 BLOCK TO LEATH AVE. TURN NORTH ON LEATH AVE. FOR 0.27 MI (0.43 KM) TO FEHR RD. TURN WEST ON FEHR RD. FOR 0.23 MI (0.37 KM) TO SOUTH DELDRIDGE TO THE STATION. THE STATION IS SET FLUSH WITH THE GROUND AND IS LOCATED 78.5 FT (23.9 M) EAST OF THE EASTERNMOST EDGE OF MACADAM PATH SOUTH OF FEHR ROAD, 96.0 FT (29.3 M) SOUTHEAST OF THE SOUTHEAST CORNER OF CONCRETE WATER FOUNTAIN BASE EAST OF THE MACADAM PATH AND 149.4 FT (45.5 M) NORTH OF SHELTER BUILDING AT EDWARDS PARK.

Horizontal		Vertical	
Latitude (dms)	N 39 05 58.48190	Accuracy	2nd Order Class II
Longitude (dms)	W 84 35 43.62007	Datum	NAVD 29 NAVD 88
State Plane Zone	(3402) Ohio South	Elevation in meters	257.245
Scale	0.99994819	Elevation is US Survey ft.	843.98
Convergence (dms)	-1 19 46.57	Final Adjusted Elevation from NGS	August 1992
Accuracy	1st Order		
Datum	NAD 83		
Easting (X) in meters	418,759.068		
Northing (Y) in meters	124,170.690		
Easting (X) in US Survey ft.	1,373,878.708		
Northing (Y) in US Survey ft.	407,383.337		
Final Adjusted Coordinate from NGS	March 1992		

No. 7023

Neighborhood: Price Hill

Grid Bearing
to R.M. 9004

N 60 11 12 E

No. 7023

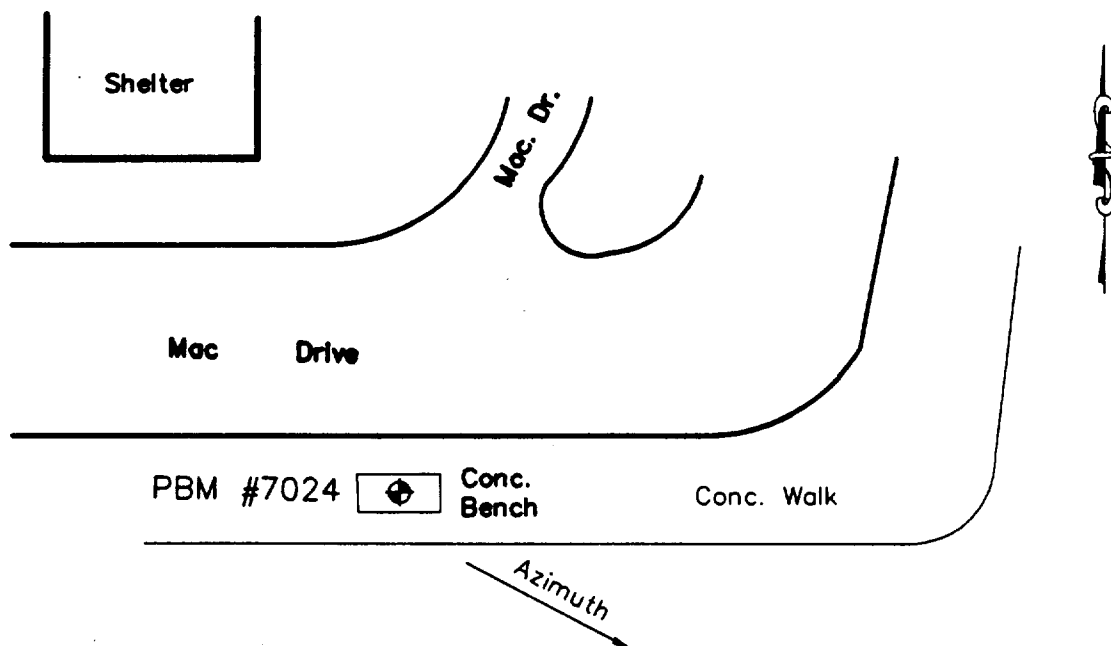
Neighborhood: Price Hill

**Grid Bearing
to B.M. 9004**

N 60 11 12 E

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: MT. ECHO



STATION IS LOCATED IN THE TOP OF THE CONCRETE BENCH SOUTHWEST OF THE FLAG POLE ALONG THE CONCRETE WALK SOUTH OF THE MACADAM DRIVE IN MT. ECHO PARK IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, PROCEED NORTH ALONG MAIN ST. FOR 1 BLOCK TO 6TH ST. TURN WEST ON 6TH ST. FOLLOW 6TH ST. EXPRESSWAY TO ELBERON AVENUE EXIT. TURN LEFT ON ELBERON AVENUE TO MT. ECHO PARK AND THE STATION.

Horizontal

Latitude (dms) N 39 05 35.36035
 Longitude (dms) W 84 33 51.77665
 State Plane Zone (3402) Ohio South
 Scale 0.99994875
 Convergence (dms) -1 18 35.61
 Accuracy 1st Order
 Datum NAD 83
 Easting (X) in meters 421,429.416
 Northing (Y) in meters 123,395.992
 Easting (X) in US Survey ft. 1,382,639.677
 Northing (Y) in US Survey ft. 404,841.683

Final Adjusted Coordinate from NGS	March 1992
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Vertical

Accuracy 2nd Order Class II
 Datum NAVD 29 NAVD 88
 Elevation in meters 250.991
 Elevation in US Survey ft. 823.46

Final Adjusted Elevation from NGS	August 1992
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No. 7024

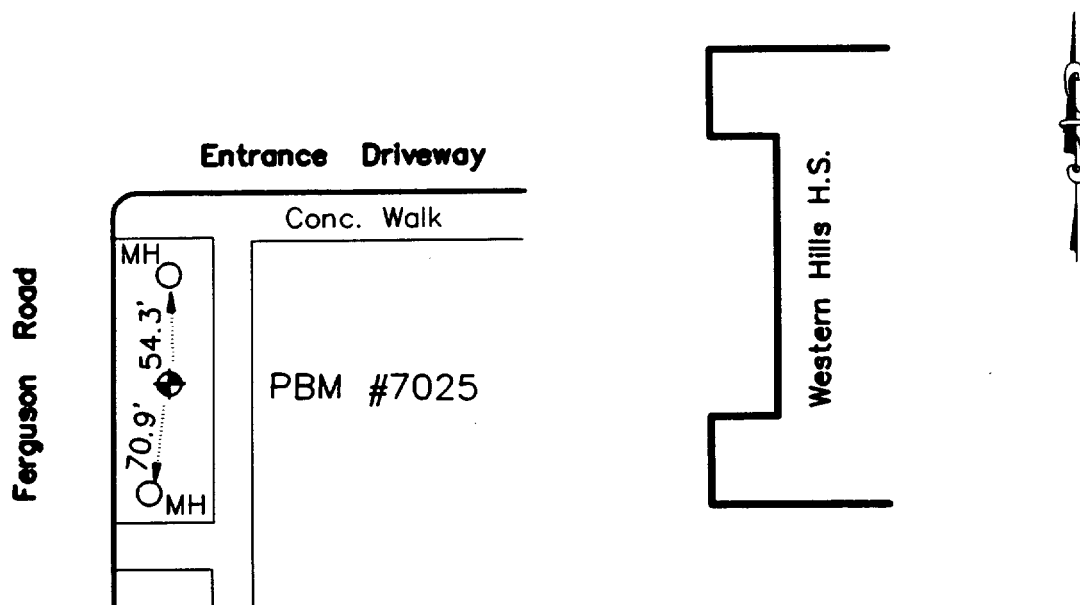
Neighborhood: Price Hill

Grid Bearing
 to B.M. 9001

N 57 25 57 E

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: WESTERN HILLS HIGH SCHOOL



STATION IS LOCATED AT THE EAST SIDE OF FERGUSON ROAD AND SOUTH OF ENTRANCE DRIVEWAY TO WESTERN HILLS HIGH SCHOOL IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, PROCEED NORTH ALONG MAIN ST. FOR 4 BLOCKS TO 9TH ST. TURN WEST ON 9TH ST. THAT MERGES WITH 8TH ST. FOR 2.26 MI (3.64 KM) TO GLENWAY AVE. TURN NORTHWEST ON GLENWAY AVE. FOR 3.29 MI (5.29 KM) TO FERGUSON RD. TURN NORTH ON FERGUSON RD. FOR 0.20 MI (0.32 KM) TO THE ENTRANCE DRIVEWAY OF WESTERN HILLS HIGH SCHOOL TO THE STATION. THE STATION IS SET FLUSH WITH THE GROUND AND IS LOCATED 4.8 FT (1.5 M) WEST OF THE WESTERNMOST EDGE OF CONCRETE WALK ON THE EAST SIDE OF FERGUSON ROAD, 54.3 FT (16.6 M) SOUTHEAST OF MANHOLE ON THE EAST SIDE OF THE SAID FERGUSON ROAD, 70.9 FT (21.6 M) NORTHEAST OF ANOTHER MANHOLE ON THE EAST SIDE OF THE SAID FERGUSON ROAD AND 15.1 FT (4.6 M) EAST OF THE EASTERNMOST EDGE OF CONCRETE CURB ALONG THE SAID FERGUSON ROAD.

Horizontal

Latitude (dms) N 39 07 27.53516
 Longitude (dms) W 84 36 04.82084
 State Plane Zone (3402) Ohio South
 Scale 0.99994615
 Convergence (dms) -1 20 00.03
 Accuracy 1st Order
 Datum NAD 83
 Easting (X) in meters 418,313.695
 Northing (Y) in meters 126,927.882
 Easting (X) in US Survey ft. 1,372,417.514
 Northing (Y) in US Survey ft. 416,429.227

Final Adjusted Coordinate from NGS	March 1992
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Vertical

Accuracy 2nd Order Class II
 Datum NAVD 29 NAVD 88
 Elevation in meters 282.188
 Elevation is US Survey ft. 925.81

Final Adjusted Elevation from NGS	August 1992
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No. 7025

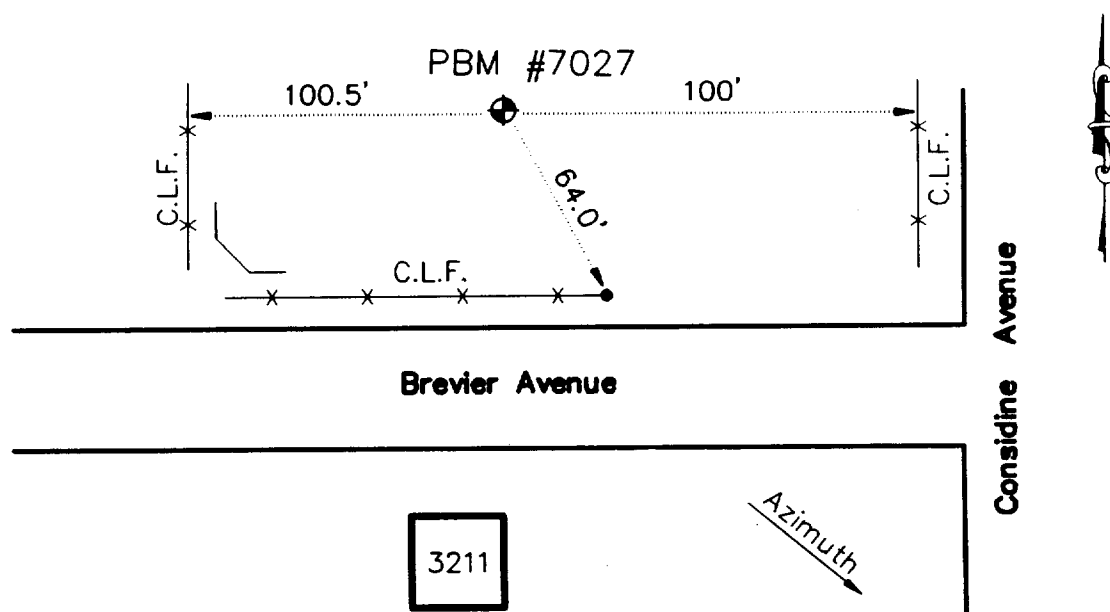
Neighborhood: Covedale

Grid Bearing
 to B.M. 9012

N 7 59 29 E

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: CONSIDINE AND BREVIER



STATION IS LOCATED IN A SMALL FIELD AT THE NORTHWEST CORNER OF THE INTERSECTION OF CONSIDINE AVENUE AND BREVIER AVENUE IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, PROCEED NORTH ALONG MAIN ST. FOR 4 BLOCKS TO 9TH ST. TURN WEST ON 9TH ST. THAT MERGES WITH 8TH ST. FOR 2.26 MI (3.64 KM) TO GLENWAY AVE. TURN NORTHWEST ON GLENWAY AVE. FOR 0.85 MI (1.37 KM) TO CONSIDINE AVE. TURN SOUTH ON CONSIDINE AVE. FOR 1 BLOCK TO BREVIER AVE. TO THE STATION. THE STATION IS SET FLUSH WITH THE GROUND AND IS LOCATED 10.5 FT (3.2 M) WEST OF THE PRODUCED LINE OF THE EAST SIDE OF A 2 STORY FRAME HOUSE NUMBER 3211 ON THE SOUTH SIDE OF BREVIER AVENUE, 64.0 FT (19.5 M) NORTHWEST OF EASTERNMOST END POST OF CHAIN LINK FENCE ON THE NORTH SIDE OF THE SAID BREVIER AVENUE, 100.5 FT (30.6 M) EAST OF THE WESTERNMOST CHAIN LINK FENCE AND 100.0 FT (30.5 M) WEST OF THE EASTERNMOST CHAIN LINK FENCE WEST OF THE CONSIDINE AVENUE.

Horizontal		Vertical	
Latitude (dms)	N 39 06 43.89966	Accuracy	2nd Order Class II
Longitude (dms)	W 84 33 48.09898	Datum	NAVD 29 NAVD 88
State Plane Zone	(3402) Ohio South	Elevation in meters	271.683
Scale	0.99994713	Elevation is US Survey ft.	891.35
Convergence (dms)	-1 18 33.27	Final Adjusted Elevation from NGS	August 1992
Accuracy	1st Order		
Datum	NAD 83		
Easting (X) in meters	421,566.059		
Northing (Y) in meters	125,506.938		
Easting (X) in US Survey ft.	1,383,087.978		
Northing (Y) in US Survey ft.	411,767.345		
Final Adjusted Coordinate from NGS	March 1992		

No. 7027

Grid Bearing
to B.M. 9006

Neighborhood: Price Hill

S 33 32 22 E

**Grid Bearing
to B.M. 9006**

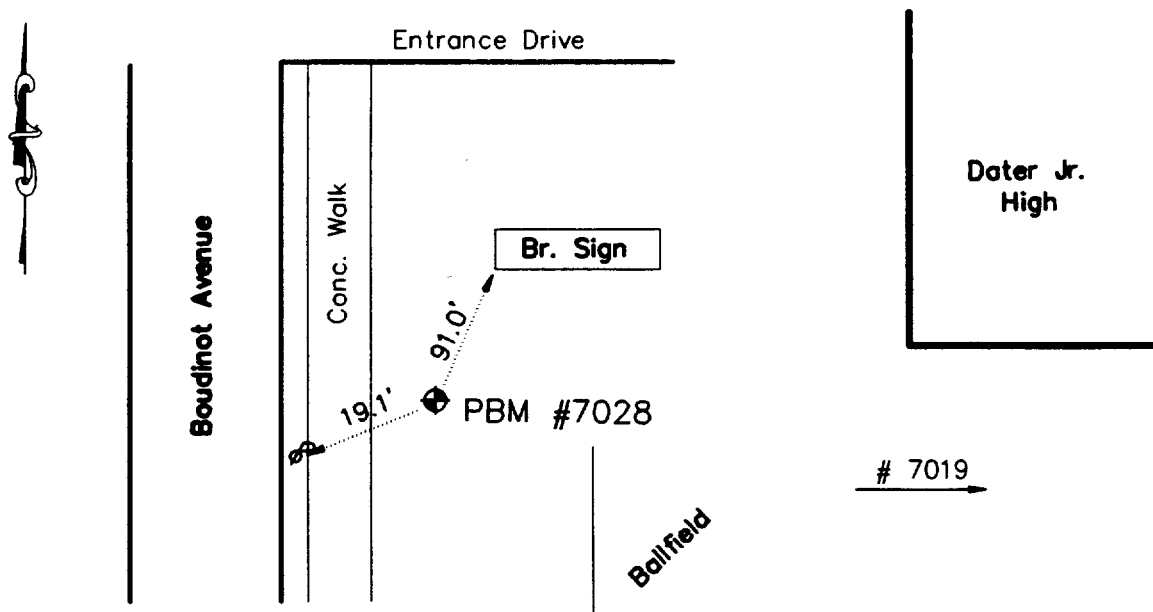
No. 7027

Neighborhood: Price Hill

S 33 32 22 E

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: DATER JUNIOR HIGH SCHOOL



STATION IS LOCATED ON THE EAST SIDE OF BOUDINOT AVENUE SOUTH OF THE INTERSECTION OF QUEEN CITY WAY AND BOUDINOT AVENUE IN FRONT OF THE GILBERT DATER JUNIOR HIGH SCHOOL IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, PROCEED NORTH ALONG MAIN ST. FOR 4 BLOCKS TO 9TH ST. TURN WEST ON 9TH ST. THAT MERGES WITH 8TH ST. FOR 2.26 MI (3.64 KM) TO GLENWAY AVE. TURN NORTHWEST ON GLENWAY AVE. FOR 3.75 MI (6.03 KM) TO BOUDINOT AVE. TURN NORTH ON BOUDINOT AVE. FOR 0.33 MI (0.53 KM) TO THE ENTRANCE DRIVE OF DATER JUNIOR HIGH SCHOOL TO THE STATION. THE STATION IS SET FLUSH WITH THE GROUND AND IS LOCATED 15.9 FT (4.8 M) EAST OF THE EASTERNMOST EDGE OF CONCRETE CURB ON THE EAST SIDE OF BOUDINOT AVENUE, 19.1 FT (5.8 M) NORTHEAST OF POWER POLE ON THE EAST SIDE OF THE SAID BOUDINOT AVENUE AND 91.0 FT SOUTHWEST OF SOUTHWEST CORNER OF BRICK SCHOOL SIGN ON THE EAST SIDE OF THE SAID BOUDINOT AVENUE.

Horizontal		Vertical	
Latitude (dms)	N 39 08 01.82857	Accuracy	2nd Order Class II
Longitude (dms)	W 84 36 17.33051	Datum	NAVD 29 NAVD 88
State Plane Zone	(3402) Ohio South	Elevation in meters	267.911
Scale	0.99994542	Elevation is US Survey ft.	878.97
Convergence (dms)	-1 20 07.96	Final Adjusted Elevation from NGS	August 1992
Accuracy	1st Order		
Datum	NAD 83		
Easting (X) in meters	418,037.949		
Northing (Y) in meters	127,992.087		
Easting (X) in US Survey ft.	1,371,512.837		
Northing (Y) in US Survey ft.	419,920.703		
Final Adjusted Coordinate from NGS	March 1992		

No. 7028

Neighborhood: Westwood

Grid Bearing
to B.M. 7019

S 87 52 17 E

No. 7028

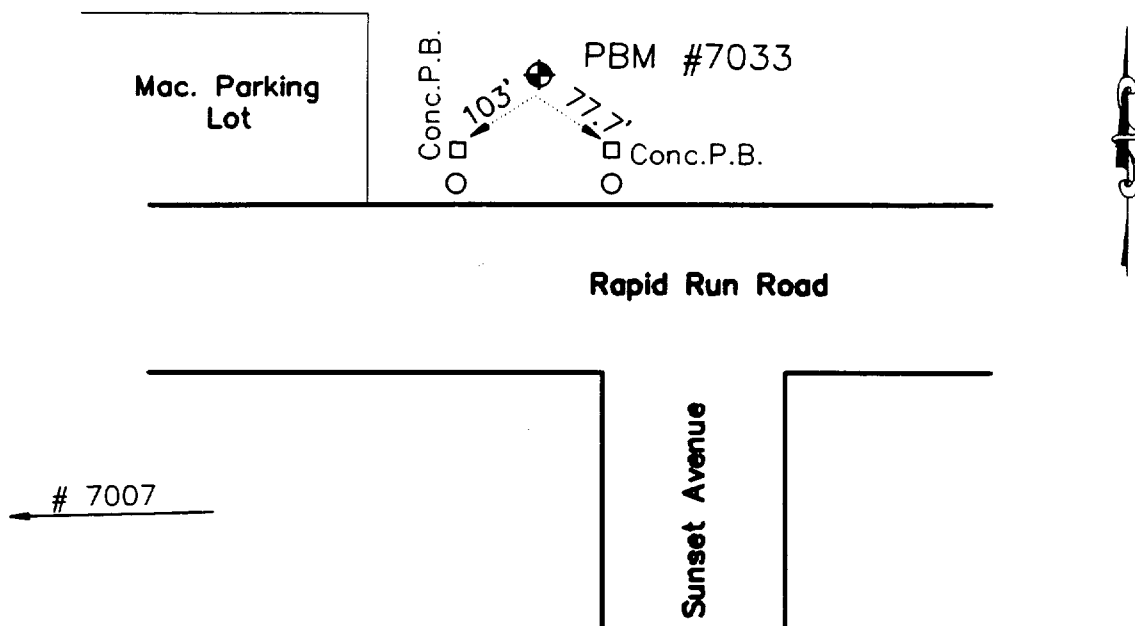
Neighborhood: Westwood

**Grid Bearing
to B.M. 7019**

S 87 52 17 E

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: RAPID RUN PARK



STATION IS LOCATED EAST OF THE NORTHWEST ENTRANCE TO MACADAM PARKING LOT AT THE RAPID RUN PARK IN CINCINNATI, OHIO. TO REACH FROM THE FEDERAL BUILDING AT FIFTH AND MAIN STREETS IN DOWNTOWN CINCINNATI, PROCEED NORTH ALONG MAIN ST. FOR 4 BLOCKS TO 9TH ST. TURN WEST ON 9TH ST. THAT MERGES WITH 8TH ST. FOR 2.26 MI (3.64 KM) TO GLENWAY AVE. TURN NORTHWEST ON GLENWAY AVE. FOR 2.41 MI (3.88 KM) TO RAPID RUN. TURN NORTH ON RAPID RUN AND CONTINUE NORTH TO THE INTERSECTION OF SUNSET AVENUE AND SAID RAPID RUN ROAD. THE STATION IS SET FLUSH WITH THE GROUND AND IS LOCATED 103.4 FT NORTHEAST OF A CONCRETE PULL BOX, 77.7 FT NORTHWEST OF A CONCRETE PULL BOX, 40.7 FT NORTH OF THE NORTH CURB EDGE OF RAPID RUN ROAD AND 39.5 FT EAST OF AN S.G.I.

Azimuth Mark

Vertical

Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	240.243
Elevation in US Survey feet	788.20
Final Adjusted Elevation from NGS	August 1992

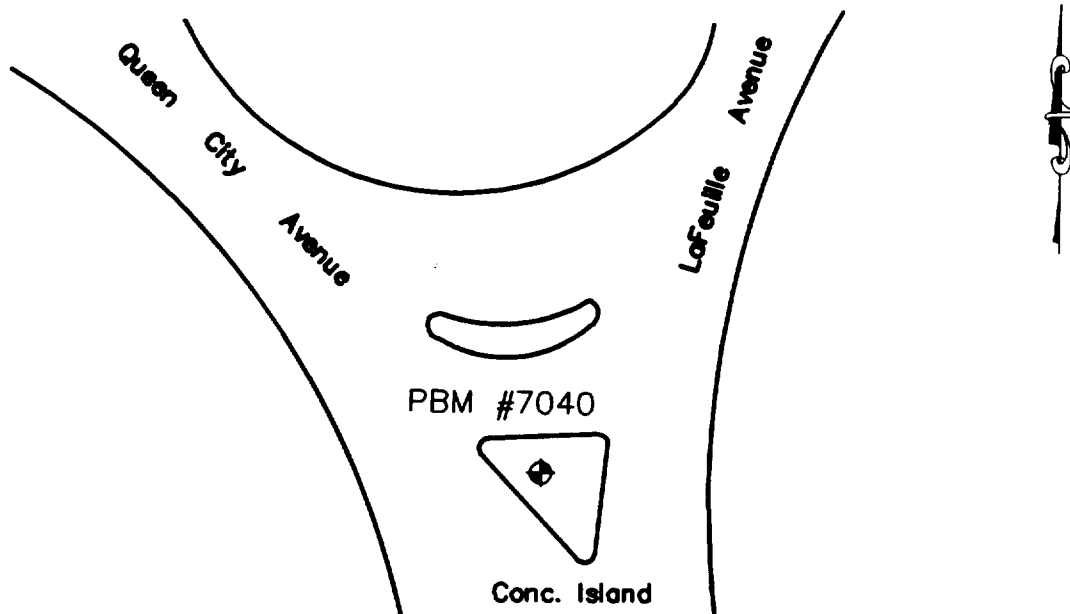
No. 7033

Neighborhood: Covedale

Pairs with B.M. 7007

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: WESTWOOD



THE STATION IS LOCATED AT THE "Y" INTERSECTION OF QUEEN CITY AVENUE AND LAFEUILLE AVENUE IN CINCINNATI, OHIO. THE STATION IS SET FLUSH WITH THE EXISTING SURFACE OF A 24 INCH X 24 INCH CONCRETE POLE BASE THAT IS LOCATED IN THE CONCRETE ISLAND OF SAID INTERSECTION, 19.1 FT WEST OF THE CURB ON THE EAST SIDE OF THE ISLAND AND 7.4 FT NORTHEAST OF THE CURB ON THE SOUTHWESTERLY SIDE OF THE ISLAND.

Intermediate Mark

Vertical

Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	228.519
Elevation in US Survey feet	749.73

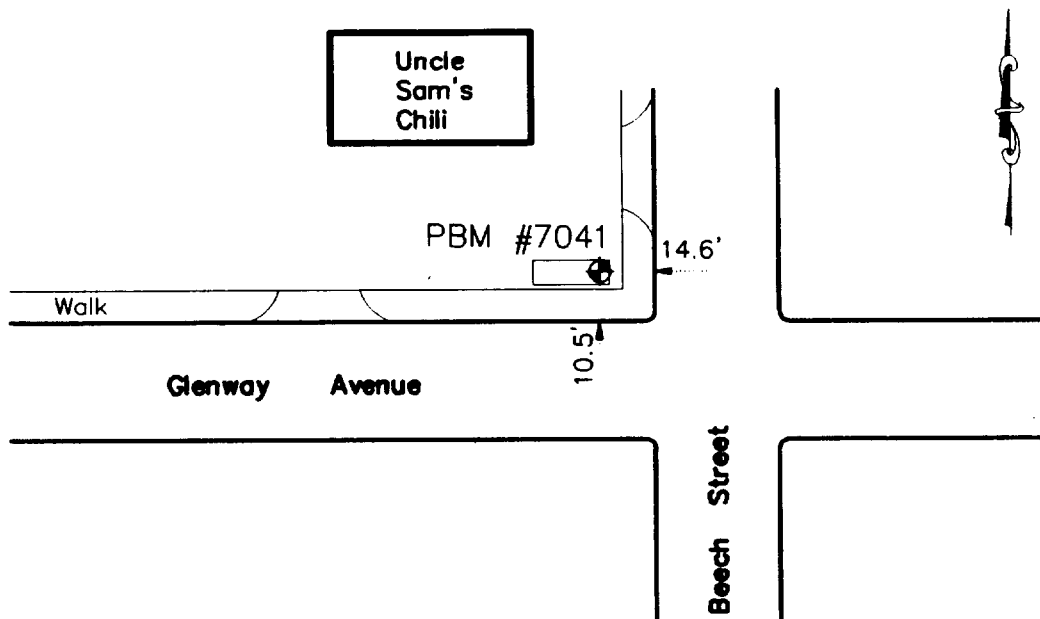
Final Adjusted Elevation from NGS	August 1992
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No. 7040

Neighborhood: Westwood

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: PRICE HILL



THE STATION IS LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF GLENWAY AND BEECH AVENUES IN CINCINNATI, OHIO. THE STATION IS SET FLUSH WITH THE EXISTING SURFACE, ON THE EAST SIDE, OF A 12 INCH CONCRETE RETAINING WALL LOCATED JUST INSIDE A CONCRETE WALK, 14.6 FT WEST OF THE WEST CURB OF SAID BEECH STREET AND 10.5 FT NORTH OF THE NORTH CURB OF SAID GLENWAY AVENUE.

Intermediate Mark

Vertical

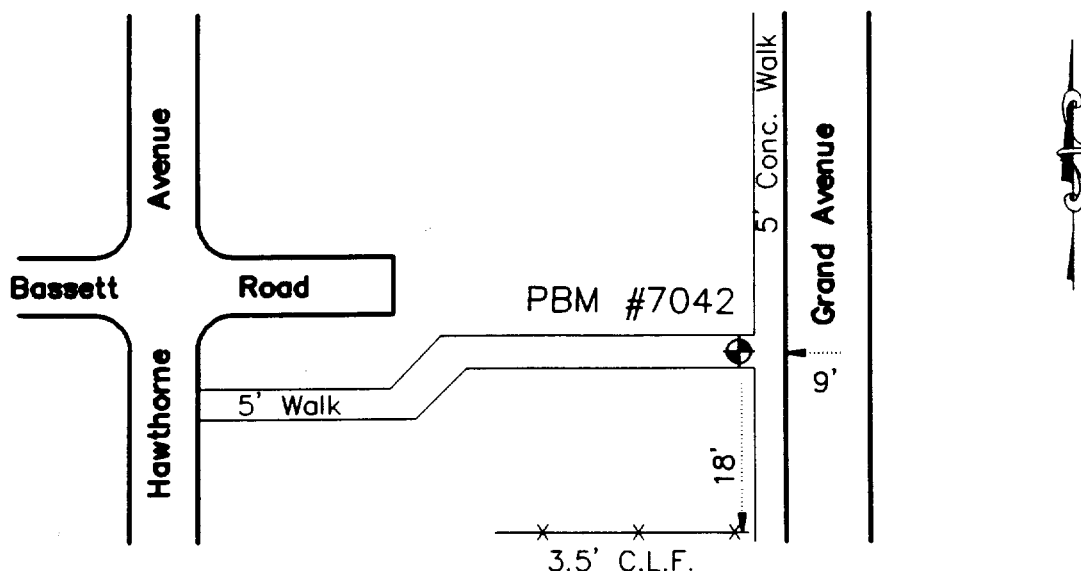
Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	266.905
Elevation in US Survey feet	875.67
Final Adjusted Elevation from NGS	August 1992

No. 7041

Neighborhood: Price Hill

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: PRICE HILL



THE STATION IS LOCATED ON THE WEST SIDE OF GRAND AVENUE JUST EAST OF THE INTERSECTION OF HAWTHORNE AVENUE AND BASSETT ROAD IN CINCINNATI, OHIO. THE STATION IS SET FLUSH WITH THE EXISTING SURFACE, IN THE NORTH SIDE, OF A 5 FT CONCRETE WALK, 18 FT NORTH OF A 3.5 FT CHAIN LINK FENCE AND 9 FT WEST OF THE WEST CURB OF SAID GRAND AVENUE.

Intermediate Mark

Vertical

Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	239.973
Elevation in US Survey feet	787.31

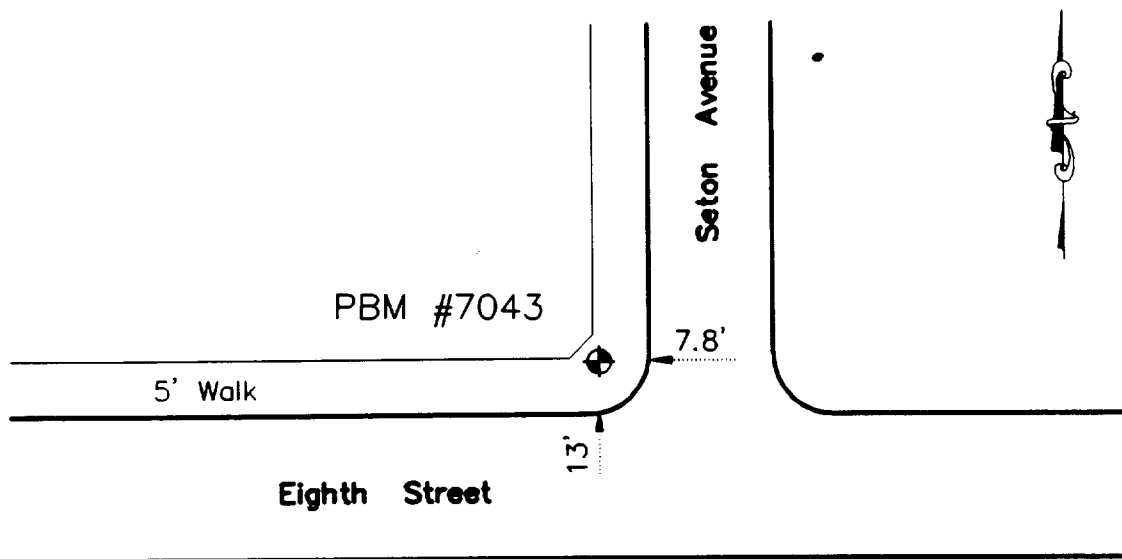
Final Adjusted Elevation from NGS	August 1992
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No. 7042

Neighborhood: Price Hill

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: PRICE HILL



THE STATION IS LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION OF SETON AVENUE AND EIGHTH STREET IN CINCINNATI, OHIO. THE STATION IS SET FLUSH WITH THE EXISTING SURFACE, AT THE ANGLED INTERSECTION, OF THE NORTH BOUND AND WEST BOUND SIDEWALKS, 7.8 FT WEST OF THE PRODUCED EAST CURB EDGE OF SAID SETON AVENUE AND 13 FT NORTH OF THE PRODUCED SOUTH CURB EDGE OF SAID EIGHTH STREET.

Intermediate Mark

Vertical

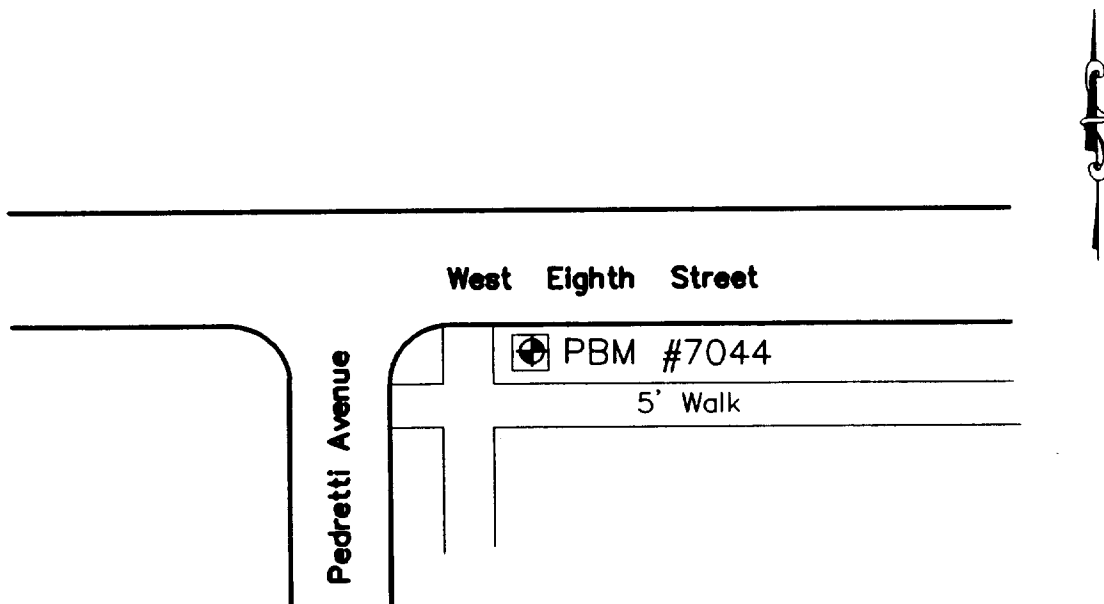
Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	253.209
Elevation in US Survey feet	830.74
Final Adjusted Elevation from NGS	August 1992

No. 7043

Neighborhood: Price Hill

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: PRICE HILL



THE STATION IS LOCATED IN THE SOUTHEAST CORNER OF THE "T" INTERSECTION OF WEST EIGHTH STREET AND PEDRETTI AVENUE IN CINCINNATI, OHIO. THE STATION IS SET FLUSH WITH THE EXISTING SURFACE, IN THE NORTHWEST CORNER, OF A 24 INCH X 24 INCH CONCRETE POLE BASE, 12 FT EAST OF THE EAST LINE PRODUCED NORTH OF THE EAST CURB EDGE OF SAID PEDRETTI AVENUE AND INSIDE A 5 FT CONCRETE SIDEWALK THAT RUNS PARALLEL WITH SAID EIGHTH STREET.

Intermediate Mark

Vertical

Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	272.898
Elevation in US Survey feet	895.33

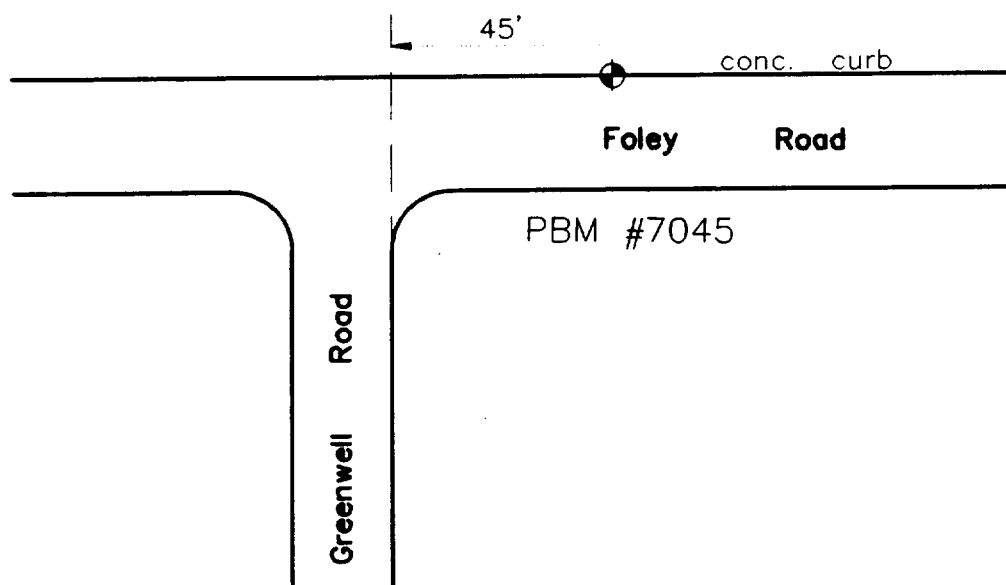
Final Adjusted Elevation from NGS	August 1992
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No. 7044

Neighborhood: Price Hill

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: DELHI



THE STATION IS LOCATED EAST OF THE "T" INTERSECTION OF FOLEY ROAD AND GREENWELL ROAD IN CINCINNATI, OHIO. THE STATION IS SET FLUSH WITH THE EXISTING SURFACE OF THE NORTH CURB OF SAID FOLEY ROAD, 45 FT EAST OF THE EAST CURB LINE EXTENDED NORTH OF SAID GREENWELL ROAD.

Intermediate Mark

Vertical

Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	272.639
Elevation in US Survey feet	894.48

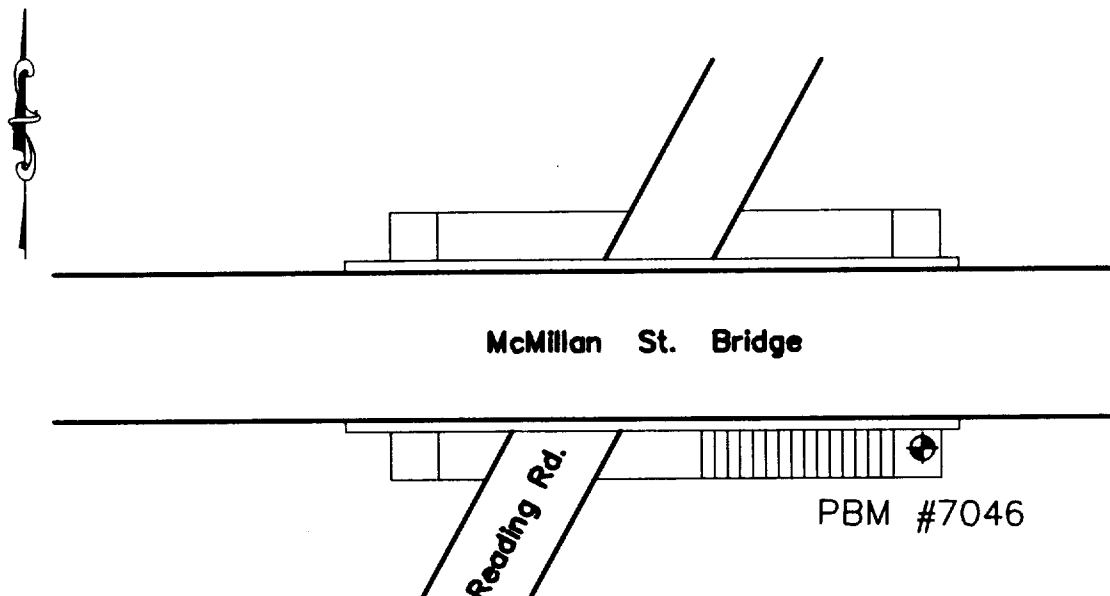
Final Adjusted Elevation from NGS	August 1992
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No. 7045

Neighborhood: Delhi

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: WALNUT HILLS



THE STATION IS LOCATED IN THE TOP LANDING OF CONCRETE STEPS ON THE MCMILLAN STREET BRIDGE WHICH OVERPASSES READING ROAD IN CINCINNATI, OHIO. THE STATION IS SET FLUSH WITH THE EXISTING SURFACE, IN THE NORTHEAST CORNER, OF SAID CONCRETE LANDING AND 9.0 FT SOUTH OF THE SOUTH CURB OF SAID MCMILLAN STREET.

Intermediate Mark

Vertical

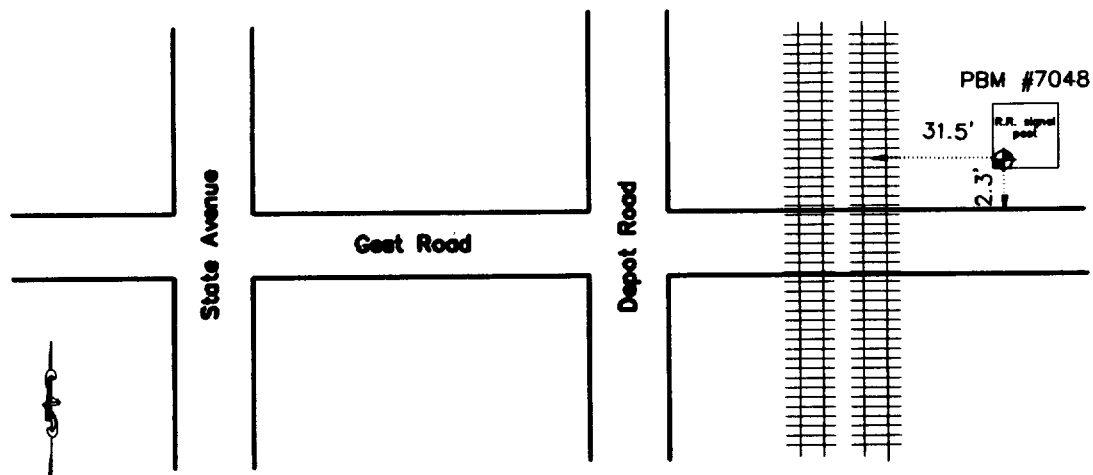
Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	246.218
Elevation in US Survey feet	807.80
Final Adjusted Elevation from NGS	August 1992

No. 7046

Neighborhood: Walnut Hills

City of Cincinnati
Department of Public Works • Engineering Division
BENCHMARK DATA SHEET

Approximate Location: DOWNTOWN



THE STATION IS LOCATED ON THE NORTH SIDE OF GEST STREET, JUST EAST OF DEPOT STREET, IN THE AREA OF THE CSX RAILROAD DEPOT IN CINCINNATI, OHIO. THE STATION IS A 3" X 3" CHISELED SQUARE CUT IN THE SOUTHWEST CORNER OF A 3' X 3' CONCRETE BASE FOR A RAILROAD SIGNAL POST, 31.5' EAST OF THE CENTERLINE OF THE EASTERNMOST TRACKS AND 2.3' NORTH OF THE NORTH CURB OF SAID GEST STREET.

Intermediate Mark

Vertical

Accuracy	2nd Order Class II
Datum	NAVD 29 NAVD 88
Elevation in meters	151.014
Elevation in US Survey feet	495.45

Final Adjusted Elevation from NGS	August 1992
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No. 7048

Neighborhood: Downtown